Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

E١	ect	rica	d:	
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			ilament, Thoriated Tungsten:	F
volts	5 ± 5%	5	 Voltage (AC or DC)	
amp	.5	14.5	 Current at 5 volts	
			ransconductance, for plate volts =	1
			2500, grid-No.2 volts = 500, and	
<i>μ</i> mhos)0	4000	 plate ma. = 100	
	, 1	5.1	 u-Factor, Grid No.2 to Grid No.1	M
			irect Interelectrode Capacitances	
			(Approx.):	
$\mu\mu$ f	L2	0.12	 Grid No.1 to plate	
			Grid No.1 to filament, grid No.2,	
μμf	13	13	 and base shell	
			Plate to filament, grid No.2,	
uuf	.6	4.6	 and base shell.	

Mechanical:

Operating Positi	on									۷e	ert	. 10	cal	,	ba	se	dowi	1
Maximum Överall	Lengt	h.														6-	3/8"	
Seated Length .													5-	31	8"	±	1/4"	•
Maximum Diameter															. :	3-9	/16"	1
Weight (Approx.)																	9 oz	7
Сар				. 5	Sk i	rt	ed	5	Sma	11	-	Jŧ	DE	С	No	.C1	.–22)	
Base ^a				S	oec	cia	ıl	Me	ta	ıl-	-Sł	ne l	1	Gi	an	t 5	-Pir	ı
Basing Designa																		

Pin 1 - Filament
Pin 2 - Grid No.2
Pin 3 - Grid No.1



Pin 4-Grid No.2 Pin 5-Filament Cap-Plate

Thermal:

Forced-Air Cooling:

Upward through base toward bulb:

Base-cooling air flow from a small fan or centrifugal blower should be applied simultaneously with filament power. In continuous service 15 cfm at a static pressure of 0.4 inch of water are required through the base when

- Indicates a change.

4-400A

- Components:

Socket. . . . Johnson 122-275, National HX-100, or equivalent Chimney Penta Labs PL-C1, or equivalent Heat-Radiating Plate Connector. . . Eimac HR-6, or equivalent

AF POWER AMPLIFIER & MODIII ATOR - Class AB

Maximum CCSb Ratings, Absolute-Maximum Values:

DC PLATE VOLTAGE	4000 max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	800 max.	volts
MAXSIGNAL DC PLATE CURRENT	350 max.	ma
GRID-No.2 INPUT ^c	35 max.	watts
GRID-No.1 (CONTROL-GRID) INPUT	10 max.	watts
PLATE DISSIPATION°	400 max.	watts

PLATE-MODULATED RF POWER AMPLIFIER - Class C Telephony

Carrier conditions per tube for use with a maximum modulation factor of 1

Maximum CCSb Ratings, Absolute-Maximum Values:

At frequencies up to 110 Mc

DC PLATE VOLTAGE	3200 max.	
DC GRID-No.2 VOLTAGE	600 max.	volts
DC GRID-No.1 VOLTAGE		volts
DC PLATE CURRENT	275 max.	ma
GRID-No.2 INPUT	35 max.	watts
GRID-No.1 INPUT	10 max.	watts
PLATE DISSIPATION	270 max.	watts

RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphyd

RF POWER AMPLIFIER - Class C FM Telephony

Maximum CCSb Ratings, Absolute-Maximum Values:

At frequencies up to 110 Mc

DC PLATE VOLTAGE	4000 max.	volts
DC GRID-No.2 VOLTAGE	600 max.	volts
DC GRID-No.1 VOLTAGE	-500 max.	volts
DC PLATE CURRENT	350 max.	ma
GRID-No.2 INPUT	35 max.	watts
GRID-No.1 INPUT	10 max.	watts
PLATE DISSIPATION	400 max.	watts

Metal base shell should be grounded by means of suitable spring fingers.

→ Indicates a change.



D Continuous Commercial Service.

 $[{]f c}$ Averaged over any audio-frequency cycle of sine-wave form.

d key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.